POLYCOAT PRODUCTS
A Division of American Polymers Corp.

TECHNICAL DATA SHEET

PCF 2131-8-50S-NATURAL

Product Description

PCF 2131 polyurethane foam systems are designed for molding and void filling applications. PCF 2131-8 can be designed to meet a variety of reactivity requirements without sacrificing product quality and can be formulated to a wide range of densities from 5 to 30 pounds per cubic foot. The unique handling characteristics of the PCF 2131 series systems provide ease of mixing by hand or machine to produce a uniform product with excellent cell structure. This product does not contain any CFC blowing agent or other Ozone Depleting chemical.

Applications

The PCF 2131 series systems have been formulated for use as a high compressive strength rigid foam for the manufacturing of molded picture frames, furniture parts, structural floats and other design applications.

Storage and Handling

Containers for both A and B components should be kept tightly closed to prevent moisture contamination. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Component B may be stored at ambient temperature. Storage for Component A should be maintained between 77°F (25°C) and 95°F (35°C). For best results, this product should not be allowed to freeze, although it may be re-heated in a well ventilated oven for a period of time to re-liquefy solid particles. To avoid product degradation, product temperature during re-heating should not exceed 140°F (60°C). An additional note of caution is that exposure to temperatures over 400°F (204°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other heat sources that may cause excessive local heating.

Typical Properties Side-A (ISO)	
Viscosity @ 77°F (25°C)	150-250 MPa
Lbs/gal	10.33
Specific Gravity @ 77°F (25°C)	1.24
Appearance @ 77°F (25°C)	liquid

Typical Properties Side-B (POLYOL BLEND)	
Viscosity @ 77°F (25°C)	2000-2600 MPa
Lbs/gal	8.69
Specific Gravity @ 77°F (25°C)	1.04
Appearance @ 77°F (25°C)	viscous liquid

Typical Physical Properties	
Density, ASTM D1638	7.7-8.3 pcf
Compressive Strength, ASTM D1621	250 psi
Tensile strength, ASTM D1623	240 psi
Shear Strength, ASTM C273	130 psi

Processing Characteristics	
Ratio, By WT A/B	50/50
Cream Time	45-55 seconds
Rise Time	180-220 seconds
Demold Time	5-15 minutes

Health and Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact your Polycoat Products representative.

Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

Limited Warranty: Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products' current published physical properties. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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POLYCOAT PRODUCTS TEL 562.802.8834 | FAX 562.921.7363
info@polycoatusa.com | **www.polycoatusa.com**